

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference JNR/PG4881	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">FOR FURTHER ACTION</div> <div style="font-size: small;">see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</div> </div>	
International application No. PCT/ EP 03/ 07937	International filing date (<i>day/month/year</i>) 17/07/2003	(Earliest) Priority Date (<i>day/month/year</i>) 19/07/2002
Applicant GLAXO GROUP LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 9 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

9b
☐ None of the figures.

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International application No.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

line 6, after "outlet" add "(620)"

line 9, after "means" add "(649)"

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International application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-15

A medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, comprising:
indexing means and counting means for counting each time a distinct medicament dose of the medicament carrier is indexed by said indexing means
wherein said counting means is provided as a distinct electronic counter unit that is reversibly receivable by the medicament dispenser

2. Claims: 16-25

A medicament dispenser for use with a medicament carrier having multiple distinct medicament doses carried thereby, comprising indexing means and analogue counting means for counting each time a distinct medicament dose of the medicament carrier is indexed by said indexing means and manipulating means to manipulate an analogue count indicium provided by said analogue counting means

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International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65D83/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65D A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
5 X	US 6 360 739 B1 (GODFREY JAMES WILLIAM ET AL) 26 March 2002 (2002-03-26)	1,2,5,6, 9-12,14
Y	column 2, line 47 - column 7, line 20; figures 1,7	3,4,7,8, 15, 20-22,24
8 X	WO 86 02275 A (DRACO AB) 24 April 1986 (1986-04-24)	16,17,19
8 X	WO 01 17597 A (STRAUB MARIANN ;GREENWOOD MARK H (US); SAPPHIRE DESIGNS INC (US)) 15 March 2001 (2001-03-15)	18
	column 11, line 29 - line 45	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 December 2003

Date of mailing of the international search report

07. 01. 04

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
8 P,X	GB 2 372 543 A (BESPAK PLC) 28 August 2002 (2002-08-28) page 5, line 21 - line 23; claim 14; figures 1,2 ✓	16,17,19
9 Y	WO 01 41846 A (BONNEY STANLEY GEORGE ;DAVIES MICHAEL BIRSHA (GB); JONES ANTHONY P) 14 June 2001 (2001-06-14) ✓	20-22,24
A	page 34, line 5 - line 25 page 39, line 4 - line 25; figure 1	23,25
5 Y	US 5 544 647 A (EBELING FREDERICK A ET AL) 13 August 1996 (1996-08-13) ✓ figures 1,5	3,4,15
5 Y	US 6 029 659 A (O'CONNOR JAMES A) 29 February 2000 (2000-02-29) ✓ figure 5	7,8
1 A	"LE DISTRIBUTEUR A RUBAN DISKUS" ANNALES FRANCAISES DE CHRONOMETRIE ET DE MICROTECHNIQUE, OBSERVATOIRE DE BESANCON. BESANCON, FR, ✓ vol. 47, 1998, pages 97-105, XP000830919 ISSN: 0294-1228 page 99; figure VUE	1
6 A	US 2002/066451 A1 (DAVIES MICHAEL BIRSHA ET AL) 6 June 2002 (2002-06-06) ✓ paragraph [0051] -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/07937

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6360739	B1	26-03-2002	AT 251481 T	15-10-2003
			AU 741693 B2	06-12-2001
			AU 8213798 A	30-12-1998
			BR 9809554 A	20-06-2000
			DE 69818819 D1	13-11-2003
			EP 0988077 A1	29-03-2000
			JP 2000513633 T	17-10-2000
			US 2002195102 A1	26-12-2002
			AP 1126 A	05-12-2002
			AT 215389 T	15-04-2002
			AU 741218 B2	29-11-2001
			AU 8213898 A	30-12-1998
			AU 742913 B2	17-01-2002
			AU 8436498 A	30-12-1998
			BR 9809980 A	01-08-2000
			BR 9809983 A	01-08-2000
			CN 1265601 T	06-09-2000
			DE 69804609 D1	08-05-2002
			DE 69804609 T2	12-09-2002
			DK 986412 T3	22-07-2002
			EA 1396 B1	26-02-2001
			EG 21520 A	28-11-2001
			WO 9856444 A1	17-12-1998
			WO 9856445 A1	17-12-1998
			WO 9856446 A1	17-12-1998
			EP 1163922 A2	19-12-2001
			EP 0988078 A1	29-03-2000
			EP 0986412 A1	22-03-2000
			ES 2175737 T3	16-11-2002
			HK 1023956 A1	27-09-2002
			HR 980304 A1	30-04-1999
			HU 0003328 A2	28-02-2001
			JP 2000513632 T	17-10-2000
			JP 2000513634 T	17-10-2000
			NO 996085 A	09-02-2000
			NZ 501379 A	26-04-2002
			PL 337316 A1	14-08-2000
			PT 986412 T	30-09-2002
			TR 9903066 T2	21-07-2000
			TW 533865 Y	21-05-2003
			US 6474331 B1	05-11-2002
			US 6431168 B1	13-08-2002
			US 2003209239 A1	13-11-2003
			ZA 9804944 A	08-12-1999
WO 8602275	A	24-04-1986	AU 4969885 A	02-05-1986
			DE 8590143 U1	02-04-1987
			DK 269086 A	09-06-1986
			EP 0197113 A1	15-10-1986
			ES 8701660 A1	01-03-1987
			FI 862440 A	06-06-1986
			JP 62500361 T	19-02-1987
			NO 862098 A	27-05-1986
			PT 81272 A ,B	01-11-1985
			WO 8602275 A1	24-04-1986
			ZA 8507761 A	28-05-1986
WO 0117597	A	15-03-2001	US 6516799 B1	11-02-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/07937

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0117597	A	AU 7121400 A CA 2388958 A1 EP 1229955 A1 JP 2003508166 T WO 0117597 A1 US 2002189611 A1	10-04-2001 15-03-2001 14-08-2002 04-03-2003 15-03-2001 19-12-2002
GB 2372543	A 28-08-2002	EP 1362325 A1 WO 02069253 A1	19-11-2003 06-09-2002
WO 0141846	A 14-06-2001	AU 2006601 A AU 2509901 A AU 2510001 A AU 2672501 A AU 3007801 A WO 0141845 A1 WO 0141846 A1 WO 0141847 A2 WO 0141848 A1 WO 0141849 A2 EP 1235604 A1 EP 1235606 A1 EP 1235607 A1 EP 1235608 A2 EP 1235609 A2 JP 2003516196 T JP 2003516197 T JP 2003516198 T JP 2003520075 T JP 2003516199 T TW 482689 B US 2002189612 A1 US 2003000524 A1 US 2003079744 A1 US 2003005926 A1 AU 2302802 A WO 0234318 A2 EP 1326668 A2	18-06-2001 18-06-2001 18-06-2001 18-06-2001 18-06-2001 14-06-2001 14-06-2001 14-06-2001 14-06-2001 14-06-2001 04-09-2002 04-09-2002 04-09-2002 04-09-2002 04-09-2002 13-05-2003 13-05-2003 13-05-2003 02-07-2003 13-05-2003 01-04-2002 19-12-2002 02-01-2003 01-05-2003 09-01-2003 06-05-2002 02-05-2002 16-07-2003
US 5544647	A 13-08-1996	AT 211399 T AU 687290 B2 AU 4236096 A CA 2181789 A1 DE 69524865 D1 DE 69524865 T2 EP 0746366 A1 ES 2170814 T3 JP 3307946 B2 JP 9508845 T NO 963134 A NZ 297246 A WO 9616686 A1 US 5622163 A ZA 9510129 A	15-01-2002 19-02-1998 19-06-1996 06-06-1996 07-02-2002 29-08-2002 11-12-1996 16-08-2002 29-07-2002 09-09-1997 28-08-1996 22-09-1997 06-06-1996 22-04-1997 06-06-1996
US 6029659	A 29-02-2000	NONE	
US 2002066451	A1 06-06-2002	US 6378519 B1	30-04-2002

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/07937

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002066451 A1		US 6032666 A	07-03-2000
		US 5860419 A	19-01-1999
		US 5873360 A	23-02-1999
		US 5590645 A	07-01-1997
		AP 310 A	07-01-1994
		AT 401007 B	28-05-1996
		AT 43791 A	15-10-1995
		AU 675825 B2	20-02-1997
		AU 5926794 A	16-06-1994
		AU 645056 B2	06-01-1994
		AU 7202591 A	05-09-1991
		BE 1003798 A4	16-06-1992
		BR 9100843 A	05-11-1991
		CA 2037421 A1	03-09-1991
		CH 683319 A5	28-02-1994
		CN 1054893 A ,B	02-10-1991
		CN 1107687 A ,B	06-09-1995
		CZ 283168 B6	14-01-1998
		CZ 9601807 A3	16-12-1998
		CY 2010 A	20-02-1998
		CY 2014 A	20-02-1998
		CZ 285501 B6	11-08-1999
		DE 4106379 A1	05-09-1991
		DK 37991 A	03-09-1991
		ES 2031763 A6	16-12-1992
		FI 911037 A	03-09-1991
		FI 990115 A	21-01-1999
		FR 2659558 A1	20-09-1991
		FR 2660550 A1	11-10-1991
		GB 2242134 A ,B	25-09-1991
		GB 2274273 A ,B	20-07-1994
		GR 91100096 A ,B	30-06-1992
		HK 18895 A	17-02-1995
		HK 19195 A	17-02-1995
		HR 940631 A1	31-08-1996
		IE 910698 A1	11-09-1991
		IL 97396 A	31-12-1995
		IT 1244655 B	08-08-1994
		JP 3110477 B2	20-11-2000
		JP 4220266 A	11-08-1992
		KR 210412 B1	15-07-1999
		KR 244004 B1	15-03-2000
		LU 87898 A1	16-11-1992
		NL 9100381 A ,B,	01-10-1991
		NO 910836 A	03-09-1991
		NO 302929 B1	11-05-1998
		NO 980033 A	05-01-1998
		NZ 237274 A	27-02-1996
		NZ 260140 A	27-02-1996